**Erik Pak**

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**OBJECTIVE**

Energetic and hardworking individual who understands the challenges of working with a multi-faceted workforce, especially in the cutting-edge field of Data Science. Energized by the importance of continuously learning and educating myself to become a modern savvy technologist.

**TECHNICAL SKILLS**

* Python
* Pandas
* Machine Learning
* NLP
* PCA
* Developing High-Performance SQL Server Databases
* Visual Basic.NET
* ASP.NET
* C# Programming
* HTML
* Microsoft SQL Server 2005, 2000, 7.0, 6.5
* MS Cluster SQL Server
* IIS / MTS, Performance Tuning (NT/SQL)
* Windows NT Workstation / Server
* Implementing Database Design on SQL 6.5
* Systems Administration for MS SQL 6.5

**EXPERIENCE**

**Springboard**

*Data Science Career Track Fellow* **Dec 2020 - Present**

Completed over 660+ hours of intensive hands-on curriculum with 1:1 industry expert mentor oversight, completed multiple case studies, 1 guided capstone project, and 2 capstone projects with **Pandas**, **Python**, **Bayesian Optimization**, **Keras Hypertuing, NLP**, **PCA**, **Random Forest**, **XGBoost**, **AdaBoost**, **LGBM**, **Logistic Regression**, using multiple sampling techniques for fraud detection.

**Projects**

* Mobile money transactions based on a sample of real transactions extracted from one month of financial logs from a mobile money service implemented in an African country.
* Multiple machine learning algorithms to determine the best performing fraud detection analysis using both over/under sampling techniques including **RandomizedSearchCV**, **GridSearchCV**, and **SVM** with **Standard/MinMax Scaler.**
* Tweeter Sentiment Analysis using 1.6 million tweets extracted using the Twitter API was analyzed using **NLP** to determine the sentiment of each tweet. Implementation of **LGBM**, **Bayesian Optimization**, **MLP Classifier**, **Keras Classifier** with **Keras Tuning** to determine the optimum layer and the learning rate.

**Pfizer**

*Technology Lead BSP* **Jul 2010 - Sep 2010**

* QA site lead for validating accurate migration of all corporate Wyeth employee data into Pfizer portal, including guiding six corporate staff members.
* Responsible for coordinating any changes or optimizing testing, including replicating lessons learned from QA testing from other sites.

**Wyeth Pharmaceutical**

*Technology Lead BSP* ***Sep 2000 - Jul 2010***

* Managed 18+ MS SQL servers for production, development, and testing/QA with three junior staff. Hands-On project lead for IST in enhancing IIS / MTS / SQL infrastructure, including assembling and configuring servers for optimum performance with various departments and vendors to accomplish goals.
* Lead on a project with multiple sites collaborating to create an MS SQL Server monitoring System that generated twenty hours a week savings of mundane DBA work, including a Dashboard containing daily reports and any necessary Database status or maintenance information.
* Database project lead on multiple data pipeline designs ranging from Legal to HR and process architecture design for numerous projects. Also, advised developers in database design, including being an additional resource in dot net development using C# for WCMS (Wyeth Currency Management intranet application)

**The CIT Group**

*Senior Analyst /DBA*  ***Jan 2000 - Aug 2000***

* Oversaw development of a SQL pipeline to merge multiple data from various external sources into the on-site Unified MS SQL Server database.
* On-call on a rotating basis for nightly batch processing, including technical and hands-on support to roll out Cluster SQL Server 7.0 in development and QA environment for future migration of Unified Database.

**Education**

M.B.A., Concentration in Human Resources, FAIRLEIGH DICKINSON UNIVERSITY

B.S., Engineering, NJIT - NEWARK COLLEGE OF ENGINEERING